

GREASE ANALYSIS

Sample Rating Trend



Machine Id

100023135 R. BULLWHEEL

Lower Grease

MOBIL SHC GREASE 460 WT (--- LTR)

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Grease Condition

The condition of the grease is acceptable for the time in service.

Contaminants

There is no indication of any contamination in the grease.

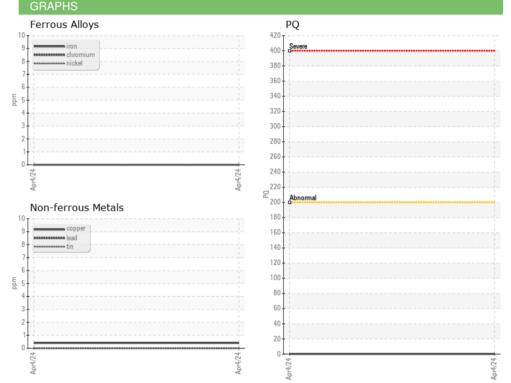
SAMPLE INFORMATION method limit/base current history1 history2					Apr2024		
Sample Number Client Info WC0679945							
Company Comp	SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Machine Age hrs Client Info 1245	Sample Number		Client Info		WC0679945		
Crease Age	Sample Date		Client Info		04 Apr 2024		
Client Info N/A	Machine Age	hrs	Client Info		1245		
CONTAMINATION method limit/base current history1 history2	Grease Age	hrs	Client Info		1245		
CONTAMINATION	Grease Serviced		Client Info		N/A		
Water WC Method >0.1 NEG WEAR METALS method limit/base current history1 history2 PQ ASTM D8184" >200 0 Chromium ppm ASTM D5185(m) >10 0 Chromium ppm ASTM D5185(m) >5 0 Caddmium ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) 0 Vanadium ppm ASTM D5185(m) >25 0 Vanadium ppm ASTM D5185(m) >25 0 Vanadium ppm ASTM D5185(m) >5 0 Lead ppm ASTM D5185(m) >5 0 Silver ppm ASTM D5185(m) >5 0 ADD	Sample Status				NORMAL		
WEAR METALS method limit/base current history1 history2 PQ ASTM D8184* >200 0 Chromium ppm ASTM D8185(m) >2250 0 Chromium ppm ASTM D8185(m) >10 0 Cadmium ppm ASTM D8185(m) >5 0 Cadmium ppm ASTM D8185(m) 0 Vanadium ppm ASTM D8185(m) 0 Vanadium ppm ASTM D8185(m) >25 0 Lead ppm ASTM D8185(m) >5 0 Copper ppm ASTM D8185(m) >5 0 Silver ppm ASTM D8185(m) >5 0 ADDITIVES method limit/base current history1 history2	CONTAMINATIO	N	method	limit/base	current	history1	history2
PQ	Water		WC Method	>0.1	NEG		
Chromium	WEAR METALS		method	limit/base	current	history1	history2
Chromium	PQ		ASTM D8184*	>200	0		
ASTM D5185(m) D	ron	ppm	ASTM D5185(m)	>250	0		
Cadmium	Chromium	ppm	ASTM D5185(m)	>10	0		
Cadmium	Nickel	ppm	ASTM D5185(m)	>5	0		
Description	Cadmium	ppm	ASTM D5185(m)		0		
Vanadium ppm ASTM D5185(m) 0 Lead ppm ASTM D5185(m) >25 0 Copper ppm ASTM D5185(m) >75 <1	Titanium		ASTM D5185(m)		0		
Copper	Vanadium	ppm	ASTM D5185(m)		0		
Silver	Lead	ppm	ASTM D5185(m)	>25	0		
Silver	Copper	ppm	ASTM D5185(m)	>75	<1		
ADDITIVES	Γin		ASTM D5185(m)	>5	0		
Soron	Silver	ppm	ASTM D5185(m)	>5	0		
Magnesium ppm ASTM D5185(m) <1	ADDITIVES		method	limit/base	current	history1	history2
Manganese ppm ASTM D5185(m) 0 Molybdenum ppm ASTM D5185(m) 0 Phosphorus ppm ASTM D5185(m) 187 Zinc ppm ASTM D5185(m) 242 Antimony ppm ASTM D5185(m) 0 THICKENER/SOAP method limit/base current history1 history2 Aluminum ppm ASTM D5185(m) 0 Barium ppm ASTM D5185(m) 2 Calcium ppm ASTM D5185(m) 3 Sodium ppm ASTM D5185(m) 384 Sulfur ppm ASTM D5185(m) 768 CONTAMINANTS method limit/base current history1 history2 Grease Color Visual* Red Red <td>Boron</td> <td>ppm</td> <td>ASTM D5185(m)</td> <td></td> <td><1</td> <td></td> <td></td>	Boron	ppm	ASTM D5185(m)		<1		
Molybdenum ppm ASTM D5185(m) 0 Phosphorus ppm ASTM D5185(m) 187 Zinc ppm ASTM D5185(m) 242 Antimony ppm ASTM D5185(m) 0 THICKENER/SOAP method limit/base current history1 history2 Aluminum ppm ASTM D5185(m) 0 Barium ppm ASTM D5185(m) 2 Calcium ppm ASTM D5185(m) 3 Sodium ppm ASTM D5185(m) 384 Sulfur ppm ASTM D5185(m) 768 Sulfur ppm ASTM D5185(m) >150 <1	Magnesium	ppm	ASTM D5185(m)		<1		
Phosphorus	•						
Zinc	•		ASTM D5185(m)		0		
THICKENER/SOAP method limit/base current history1 history2	Manganese	ppm	. ,		-		
THICKENER/SOAP method limit/base current history1 history2	Manganese Molybdenum	ppm	ASTM D5185(m)		0		
Aluminum	Manganese Molybdenum Phosphorus	ppm ppm	ASTM D5185(m) ASTM D5185(m)		0 187		
Barium	Manganese Molybdenum Phosphorus Zinc	ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)		0 187 242		
Calcium ppm ASTM D5185(m) 2 Sodium ppm ASTM D5185(m) 3 Lithium ppm ASTM D5185(m) 384 Sulfur ppm ASTM D5185(m) 768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >150 <1	Manganese Molybdenum Phosphorus Zinc Antimony	ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 187 242 0		
Sodium	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method	limit/base	0 187 242 0 current	 history1	
Sulfur	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	limit/base	0 187 242 0 current	 history1	
Sulfur ppm ASTM D5185(m) 768 CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >150 <1	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium	ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 187 242 0 current 0	 history1	 history2
CONTAMINANTS method limit/base current history1 history2 Silicon ppm ASTM D5185(m) >150 <1	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium Calcium	ppm ppm ppm ppm ppm ppm ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 187 242 0 current 0 0	 history1 	 history2
Silicon ppm ASTM D5185(m) >150 <1 Potassium ppm ASTM D5185(m) <1 GREASE CONDITION method limit/base current history1 history2 Grease Color Visual* Red Red Texture In-house* Buttery	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium Calcium Sodium	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 187 242 0 current 0 0 2	 history1	 history2
Potassium ppm ASTM D5185(m) <1	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium Calcium Sodium Lithium	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m)	limit/base	0 187 242 0 current 0 0 2 3 384	 history1	 history2
Potassium ppm ASTM D5185(m) <1 GREASE CONDITION method limit/base current history1 history2 Grease Color Visual* Red Texture In-house* Buttery	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium Calcium Sodium Lithium Sulfur	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) Method ASTM D5185(m)		0 187 242 0 current 0 0 2 3 384 768	 history1 	history2
Grease Color Visual* Red Red Texture In-house* Buttery	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m)	limit/base	0 187 242 0 current 0 0 2 3 384 768	history1 history1	history2 history2
Texture In-house* Buttery	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m)	limit/base	0 187 242 0 current 0 0 2 3 384 768 current	history1 history1	history2 history2 history2
Texture In-house* Buttery	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SO/ Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m)	limit/base >150	0 187 242 0 current 0 0 2 3 384 768 current <1	history1 history1 history1	history2 history2 history2
	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium GREASE CONDI	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) method ASTM D5185(m) MSTM D5185(m)	limit/base >150	0 187 242 0 current 0 0 2 3 384 768 current <1 <1	history1 history1 history1 history1	history2 history2 history2 history2 history2
	Manganese Molybdenum Phosphorus Zinc Antimony THICKENER/SOA Aluminum Barium Calcium Sodium Lithium Sulfur CONTAMINANTS Silicon Potassium GREASE CONDI	ppm	ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) ASTM D5185(m) METHOD ASTM D5185(m) METHOD ASTM D5185(m) METHOD Visual*	limit/base >150	0 187 242 0 current 0 0 2 3 384 768 current <1 <1 current	history1 history1 history1 history1	history2 history2 history2 history2



GREASE ANALYSIS











CALA ISO 17025:2017 Accredited Laboratory

Laboratory

Sample No. Lab Number : 02629407

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0679945

Unique Number : 5762539

Received **Tested** Diagnosed

: 16 Apr 2024 : 22 Apr 2024

: 22 Apr 2024 - Bill Quesnel

Test Package : GRS 1 (Additional Tests: BottomAnalysis) To discuss this sample report, contact Customer Service at 1-800-268-2131.

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

Mount St. Louis Moonstone

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